CONTENTS OF VOLUME 11

NUMBER 1

Note on the Synchronous Machine Sudden Short-Circuit Problem 1 — **S. Sriharan**

Time Domain Analysis of a Multiple Phase-Shifted Voltage-Source Inverter-Fed Induction Motor 13 — **K. Oguchi**

Torque/Speed Control of Wound Rotor Induction Motors Using a DC Chopper Circuit 25 — **S. A. Mahmoud, A. E. Lashin, S. A. Hassan**

A Simplified Approach for Determining the Minimum Input Power Conditions for Induction Motors Fed from Variable Frequency Sources 41 — **M. H. Salama**

Matrix Calculation of Inductances for the General Theory of Electrical Machines 53 — **J. Stepina**

Transmission Line Distance Protection by Spectral Estimation Using Rectangular Wave Transforms 65 — **B. Jeyasurya, M. A. Rahman**

NUMBER 2

Thermal Loading of Induction Motors through Frequency Modulation 77 — **T. R. Mukundan, P. Emanuel**

Optimal Output Local Control of Multimachine Power Systems 89 — **K. Rashid, H. Talaat, R. Moret**

Correspondence: Stability Analysis of Variable Frequency Induction Motor Using D-Decomposition Method 105 — **V. Subrahmanyam, K. Surendran**

A Permanently Excited DC Machine with High Power-to-Weight Ratio 113 — **Peter-Chr. Leymann, Herbert Weh**

The Influence of Conductive Cap Thickness on the Performance of Single-Sided Linear Induction Motors 125 — J. F. Gieras, A. R. Eastham, G. E. Dawson

Computation of the Impedances of the Iron Free Asynchronous Machines 137 — F. Rioux-Damidau, N. Alame

Transient Performance of Hysteresis Motors with Ferrite Magnets 147 — A. M. Osheiba, M. A. Rahman

The Fringing Effect in PM Electric Machines 159 — Gu Qishan, Gao Hongzhan

NUMBER 3

Application of Sliding Modes to Digital Power System Stabilizer Design 171 — Y.-Y. Hsu, W.-C. Chan

Improvement of Performance of Circulating Current Dual Converter 185 — P. S. Bhat, G. K. Dubey

Finite Element Analysis of Saturated Synchronous Reactances of Salient Pole Synchronous Machine 201 — W. Jian-she

Torque Angle Loop Analysis of Synchronous Machines 215 — A. S. Gopala Rao, D. Thukaram, B. S. Ramakrishna Iyengar

Synchronous Machines Adapted for Six Step Converters—Part 1: Design Study 229 — R. M. Slepian

Synchronous Machines Adapted for Six Step Converters—Part II: Experimental Evidence 249 — R. M. Slepian

NUMBER 4

An Electronic Excitation Control System for the Microalternator 263 — J. B. X. Devotta

Modelling of Homopolar Alternators Associated with Static Converters 273 — R. Shorrab, A. Razek

Dynamic Stabilization of Power Systems through Reactive Power Modulation 281 — K. R. Padiyar, C. Radhakrishna, R. Rajasekharam, M. A. Pai

Linear Var Flow Methods for Security Assessment 295 — K. R. Padiyar, T. L. Jose

Generalized Steady-State Solution for HVDC Converters 319 — P. K. Kalra

Adaptive Acceleration Factors for the Newton-Raphson Power Flow Study 337 — L. A. Kraft, G. T. Heydt

Step Transductor for PM Hybrid Stepping Motor 347 — G. Toacşe, M. Romanca, G. Pană

NUMBER 5

A Practical Fast Acting Control Scheme for Static Var Compensator 357 — C. R. Vidyashankar, A. K. Khargekar

Optimal Load Flow in Hydro-Thermal Systems: Computational Experience with Newton's Method 367 — M. E. El-Hawary, D. H. Tsang

Comparative Study of Dynamic Mathematical Models for Deep-Bar Rotor Induction Machine 387 — T. Orłowska-Kowalska, K. Macek-Kamińska

Magnetic Fields, Magnetization Currents and Losses in Nonlinear Anizotropic Ferromagnetics 401 — V. Kreisinger, J. Adam

Transient Stability Analysis of Three-Phase Reluctance Motors 411 — K. Uezato, H. Miyagi, M. Ueda

Fast Evaluation of Transient Stability of Power Systems Using a Structure Preserving Energy Function 421 — K. R. Padiyar, H. S. Y. Sastry

Correspondence: On the Power Actuating an Induced Metal Sheet 443 — M. S. Erlicki, D. Schieber

NUMBER 6

Contribution of Power System Stabilizers to the Damping of Torsional Oscillations of Large Turbo-Generators 451 — A. M. El-Serafi, E. Haq, M. Y. Niamat

An Auxiliary Current Impulse Commutated Inverter with Least Trapped Energy: Analysis and Optimization 465 — C. Namuduri, P. C. Sen

New Methods for Improvement of Dynamic Performance of Wind Turbine Generators 485 — P. K. Dash, A. P. Gupta

The Analysis and Measurement of Harmonics in the Vicinity of an HVDC Inverter 499 — D. Carlson, L. Crane, C. Fedora, G. Heydt, A. Lucero, M. Marz, B. McEnany, R. Parenteau, J. Peterson, A. Tredeau

First Conclusions on the Advantages of Full Superconducting Synchronous Machines 511 — Y. Brunet, P. Tixador, T. Lecomte, J. L. Sabrie

Characterization of Variable Frequency Sources for Induction Motor Drives 523 — M. H. Salama

The Application of the Duality of Equivalent Circuits to Modelling Cylindrical Solid-Iron Rotors of Synchronous Machines at Asynchronous Speeds 535 — J. Stepina

Book Review **547**

Errata **549**

FOLLOWING PAGE 550
Title Page to Volume 11
Contents of Volume 11
Author Index to Volume 11
Subject Index to Volume 11